

## INTERNATIONAL SEARCH REPORT

 International application No.  
**PCT/SG2005/000060**
**A. CLASSIFICATION OF SUBJECT MATTER**Int. Cl. <sup>7</sup>: G06T 7/60, 7/40, G06K 9/00, A61B 5/103, G03B 42/02, G01N 23/083

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

DWPI, PCT, USPTO, IEEE, internet (x-ray, radiographic, radiogram, bone, femur, femoral, hip, fracture, edge, contour, Canny, adaptive sampling, texture, Gabor, etc.)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	T. P. Tian et al, <i>Computing Neck-Shaft Angle of Femur for X-Ray Fracture Detection</i> Proc. Int. Conference on Computer Analysis of Images and Patterns, 2003, pp. 82-9	1-5, 18-23
X	T. P. Tian, <i>Detection of Femur Fractures in X-Ray Images</i> , as archived July 2003 <a href="http://web.archive.org/web/20030727223836/www.comp.nus.edu.sg/~leowwk/thesis/tiantaipeng.pdf">http://web.archive.org/web/20030727223836/www.comp.nus.edu.sg/~leowwk/thesis/tiantaipeng.pdf</a>	1-5, 18-23
X, P	S. E. Lim et al, <i>Detection of Femur and Radius Fractures in X-Ray Images</i> Proc. Int. Conf. on Advances in Medical Signal and Information Processing, September 2004.	1-23
X, P	D. W.-H. Yap et al, <i>Detecting Femur Fractures by Texture Analysis of Trabeculae</i> Proc. 17 <sup>th</sup> International Conference on Pattern Recognition, Vol. 3, August 2004, pp. 730-3	1-23

☒ Further documents are listed in the continuation of Box C☒ See patent family annex

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search <b>4 May 2005</b>	Date of mailing of the international search report <b>12 MAY 2005</b>
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	D. N. Davis et al, <i>Diagnostic Classification of Leg Radiographs</i> , May 2000 <a href="http://www2.dcs.hull.ac.uk/NEAT/dnd/papers/tcamva.pdf">http://www2.dcs.hull.ac.uk/NEAT/dnd/papers/tcamva.pdf</a>	1, 22-23
X	US 2003/0215119 A1 (UPPALURI et al), 20 November 2003 the whole document	1, 22-23
X	US 2003/0215120 A1 (UPPALURI et al), 2- November 2003 the whole document	1, 22-23
X, P	M. M. Syiam et al, <i>ADAGEN: Adaptive Interface Agent for X-Ray Fracture Detection</i> Proc. Int. Conf. on Electrical, Electronic and Computer Engineering, September 2004	1, 22-23
X, P	M. M. Syiam et al, <i>PCA Neural Network for Extracting Features from Femur Fracture in X-Ray Images</i> , CCTT 2004, December 2004 <a href="http://iccta.aast.edu/cms/153/ccit2004.pdf">http://iccta.aast.edu/cms/153/ccit2004.pdf</a>	1, 22-23